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THE CENTER LINE

MONTANA HIGHWAY COMMISSION

Vol. 2 No. 6 June 1, 1959

SCOREBOARD

As we head into the construction season, and the weather begins to cooperate with the contractors, we find that the work underway adds up to quite an impressive total. Currently under construction is a total of 703.684 miles. Broken down by systems, it shows that there is work underway on 81.874 miles of Interstate, 235.759 miles of Primary, and 386.051 miles of Secondary. The contracted cost of these projects? ---- $45,764,279.56.

In addition to the jobs now under construction, there is a total of 909.344 miles of highway on the designing boards, and a total of 352.427 miles in the field location and survey stage.

INTERSTATE PROGRESS

Noting the third anniversary of the Interstate Highway this month, we would like to report that design of 293.5 miles, or 25% of this highway in Montana, is virtually complete. This includes the portions already completed or presently under contract. Another 202.9 miles, or 17%, is currently in the process of being designed. In addition, surveys have been programmed on another 282 miles, or 24%. The balance of 400 miles, or 34%, has not been programmed.

EFFICIENCY

We would like to give recognition this month to the processing department, located in the southwest wing, in what used to be the basement. Andy, Bob and Marg, under the capable direction of Gil Warren, cheerfully turn out the reams and reams of plans and other multilithing required by each operation in getting a portion of highway to contract. Harry and Billy, in the blueprint room are also very accommodating. Chet and Swede, who are responsible for bringing in the aerial photos, complete the crew in this department. Their fine work is appreciated by the other sections in the highway department.

WASHO

Before the next issue of Centerline is printed, the 38th Annual WASHO Conference will have become part of the historical record of the Western Association of State Highway Officials. It has been a big task, and, undoubtedly, will be one of the largest meetings of a weeks' duration in the history of Billings. Its purpose is to discuss mutual problems and plan the highway program so that uniformity will prevail in our area and the country, as a whole, also, beneficial information, based on experience and scientific advances, can be disseminated to member states. It would be impossible for us to manage this conference without the financial aid of our friends in the construction business, and allied industries. We appreciate the lift, fellows.

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EBASCO

A two-man team from Ebasco Services is presently conducting a survey of the Right-Of-Way Department, preparatory to making some recommendations that will make more efficient use of our R/W agents, and better coordinate the efforts of our agents with other sections of the department.

Dr. Harvey Sartorius, of Los Angeles, and Mr. George Neumayer, of Spokane, are conducting an efficiency study. They come to us with a wealth of experience and background in the improvement of efficiency in industry. We are looking forward to the benefits that will accrue from their recommendations.

VISITOR

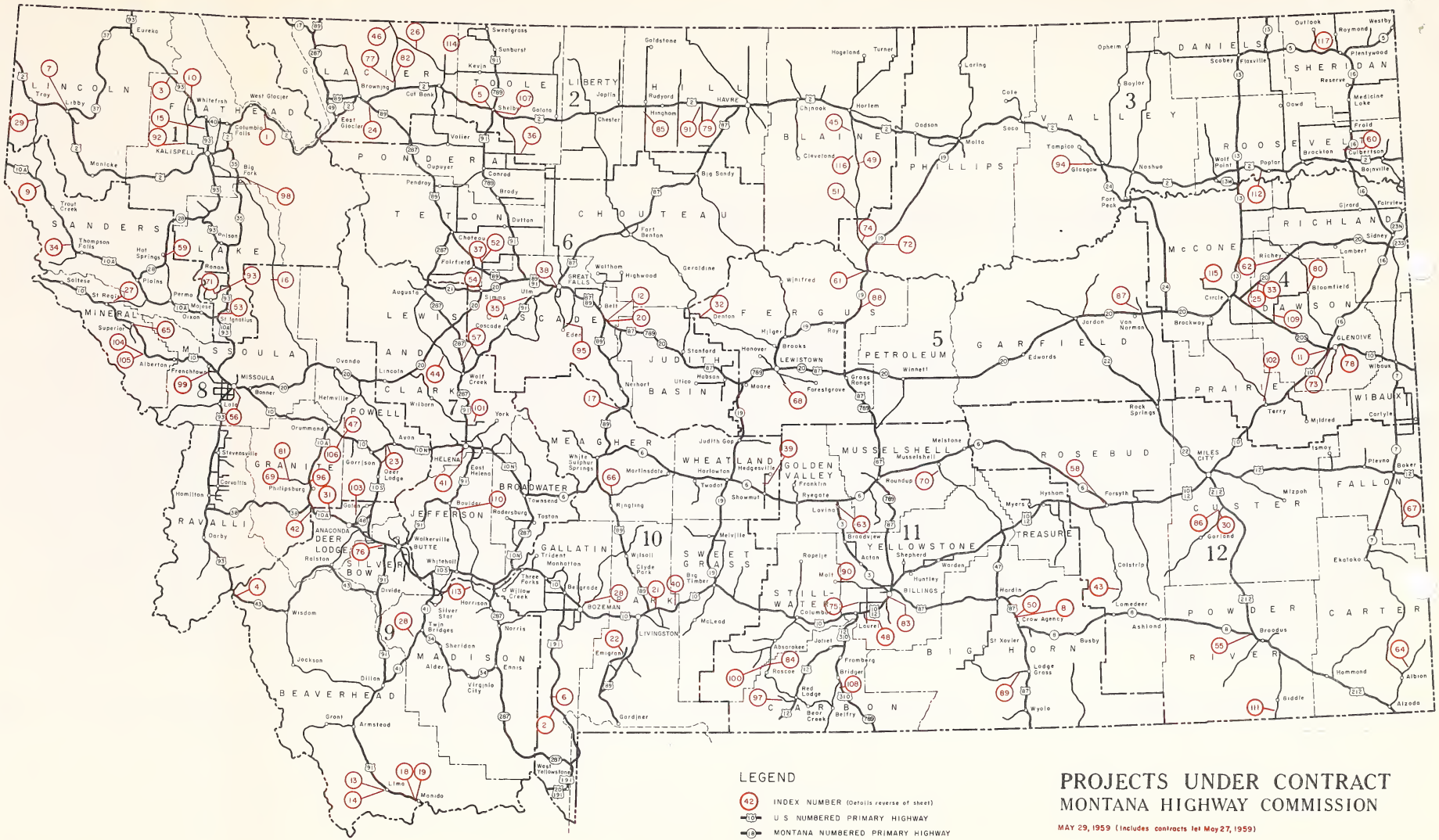
During the past few weeks, the Highway Department has been privileged to have as an observer, Mr. Jack Ghandour, Photogrammetry Engineer from the Ministry of Public Works in the Kingdom of Jordan. Jack is in the process of setting up a photogrammetry section for his Country's highway department. He previously visited in Ohio, Arizona, Wyoming, and with the Bureau of Public Roads in Washington, D. C. There are about 5,000 kilometers of highway in Jordan, or about 3,500 miles. Mr. Ghandour spent some time in each section of the department and we hope that what he learned here and during his visit to our Country will be of aid to him in his work.

CONTRACTS AWARDED IN MAY

PROJECT	AWARDED TO	AMOUNT OF BID
May 27, 1959		
F 63(7), F192(8), F194(4), F197(6) St. Ignatius-Pablo; Arlee-Ravalli; Ravalli-St. Ignatius; Ravalli-West Rd.	Kiely Construction Co. Butte, Montana	$ 605,418.22
F 333(24) Grassrange-Malta Road	Nilson-Smith Construction Co. Great Falls, Montana	$ 762,810.19
F 391(12) Circle-Sidney Road	Albert Lalonde Company Sidney, Montana	$ 130,143.97
S 32(9) Glendive-Richey Road near Bloomfield	Richardson Construction Co. Miles City, Montana	$ 155,420.03
S 157(2) Kalispell-Lupfer Road	Chas. Shannon Co., Butte	$ 124,412.69
S 178(6) Moiese-Charlo-Nine Pipe Road	Kiely Const. Co. Butte	$ 71,542.99
S 257(3) Bridge Tampico-Glasgow Road	W. P. Roscoe Co. Billings, Montana	$ 298,813.75
S 270(2) *Lindsay-Bloomfield Road	Albert Lalonde Company Sidney, Montana	$ 47,332.12
SMP 403-0005-01-42 Section House-Missouri River Section Headquarters	Oliver Shubert Chinook, Montana	$ 24,956.00

* Awarded subject to right-of-way clearance.

Total Awarded This Month $ 8,779,723.23 Total This Year $ 2,220,849.96



PROJECTS UNDER CONTRACT
MONTANA HIGHWAY COMMISSION

MAY 29, 1959 (Includes contracts let May 27, 1959)

Map Index Number	Project Number	LENGTH, TYPE OF CONSTRUCTION AND LOCATION	Probable Completion Date
1	FHP 13-C4, D4, E2, F5 U2	9.5 miles surfacing, plant mix and seal coat oiling (U.S. 2 - East of West Glacier)	1959
2	FHP 42-K2, L3	8.9 miles grading, drainage, surfacing, bituminous surface treatment and two concrete girder bridges, one 122 foot - West Gallatin River, one 105 foot - Taylor Fork (U. S. 191 - South of Bozeman)	1959
3	FHP 12-A4, E3, G2	14.0 miles surfacing, bituminous plant-mix and seal coat oiling (U. S. 93 - Southeast of Eureka)	1959
4	FHP 20-A	7.8 miles (1.0 miles in Idaho) grading, drainage and 3B foot reinforced concrete girder bridge - Trail Creek (Montana 43 - West of Wisdom)	1959
5	I-IG-ING 15-8(3) 351*	5.6 miles (2.9 miles four lane divided) grading, drainage, surfacing, plant mix and seal coat oiling - Three prestressed concrete & steel beam overpasses, two 360 foot G.N. Ry. & U. S. 2, one 276 foot U. S. 91 - North Shelby Interchange (US 91 - Shelby North)	9-1-60
6	FHP 42 J 5 K 1	7.9 miles bituminous surface treatment (US 191 - South of Bozeman)	1959
7	FAP - FI18 (7)	698 foot steel and concrete bridge and approaches - Kootenai River (Mont. 37 - Libby)	12-31-59
8	IN 90-9 (5) 498 U 1* IN 90-9 (7) 508 U 1*	11.6 miles (4.9 miles four lane divided) grading, drainage, surfacing, plant mix, seal coat oiling and fencing (US 87 - Crow Agency North)	10-1-59
9	FHP 6 - B1, C1, I4	6.5 miles grading, drainage, surfacing and bituminous surface treatment (US 10A - relocation by Noxon Rapids Dam Reservoir)	1959
10	DF 98 (9)	11.0 miles surfacing, plant mix and seal coat oiling (U.S. 93 - Northwest of Whitefish)	7-15-59
11	IM121 (3) F 130 (15) U1	2.7 miles (2.3 miles four lane divided) grading, drainage, surfacing, plant mix and seal coat oiling - (US 91 - Glendive Southwest)	8-31-59
12	F 235 (26) U1	5.3 miles grading, drainage, surfacing, plant mix and seal coat oiling (U.S. 87 - Southeast of Belt)	8-15-59
13	I - ING 82-01 (6) U1*	5.0 miles grading, drainage, surfacing and bituminous surface treatment (U.S. 91 - Lima Northwest)	8-1-59
14	I - ING 82-01 (6) U2*	118 foot prestressed concrete overpass - Lima Interchange, and 450 foot steel and concrete overpass U.P. RR. (US 91 - Lima Northwest)	6-1-59
15	F 100 (8) F 270 (9) F 270 (10)	14.6 miles (7.3 miles grading, drainage, surfacing, plant mix bituminous and seal coat oiling) (7.3 miles plant mix bituminous and seal coat oiling) (U. S. 93 and Mont. 40 - Whitefish South)	9-31-59
16	FHP 15-F1, H2, I1	18.3 miles (0.8 miles grading) surfacing, plant mix and seal coat oiling (Southeast of Big Fork)	1959
17	FHP 32-B6, F4, G4, H2, I3	6.1 miles (3.5 miles grading) surfacing and bituminous surface treatment (US 89 North of White Sulphur Springs)	1959
18	I - ING 255 (12) U1*	12.0 miles, grading, drainage, surfacing and bituminous surface treatment (US 91 Konida North)	8-1-59
19	I - ING 255 (12) U2*	281 foot steel and concrete overpass - U.P. RR., 118 foot steel and concrete overpass - Konida Interchange (US 91 - Konida North)	7-31-59
20	F 235 (26) U2	Nine prestressed concrete beam bridges - two 92 foot - four 102 foot - two 118 foot - one 123 foot - Otter Creek (U.S. 87 - Southeast of Belt)	10-31-59
21	I 117 (10) U1*	7.8 miles grading, surfacing and bituminous surface treatment, 118 foot concrete bridge - Mission Creek (US 10 - East of Livingston)	7-15-59
22	F 217 (10)	9.7 miles, grading, drainage and surfacing (US 89 relocation - North of Emigrant)	9-1-59
23	F - FG 249 (11)	2.6 miles grading, drainage, surfacing, bituminous surface treatment (U.S. 10 N - East of Garrison)	5-15-59
24	F 190 (3)	7.4 miles grading, drainage, surfacing, plant mix bituminous and seal coat oiling (U.S. 89 - Southeast of Browning)	8-1-60
25	DF 391 (9) U1 F 391 (10) U1	9.7 miles grading, drainage, surfacing, plant mix and seal coat oiling (Mont. 20 - Southwest of Richey)	9-15-59
26	S 185 (2)	32.1 miles surfacing, plant mix bituminous and seal coat oiling (North of Cut Bank)	9-1-59
27	S 216 (2)	3.4 miles grading, drainage, surfacing, plant mix bituminous and seal coat oiling (St. Regis Northeast)	7-16-59
28	DF 387 (6)	10.5 miles grading, surfacing, plant mix & seal coat oiling (Mont. 41 - south of Twin Bridges)	8-1-59
29	S 38 (6)	5.9 miles grading, drainage, surfacing, plant mix and seal coat oiling (South of Troy)	9-1-59
30	S 45 (8)	5.7 miles grading, drainage and surfacing (Northeast of Garland)	5-15-59
31	DF 164 (11)	17.0 miles plant mix surfacing and seal coat oiling (US 10A - West of Anaconda)	6-1-59
32	S 342 (7)	13.0 miles surfacing, plant mix bituminous and seal coat oiling (Denton West)	7-15-59
33	DF 391 (9)(U2) F 391 (10) U2	Three treated timber treatle bridges - One 57 foot and two 88 foot (Mont. 20 - Southwest of Richey)	6-30-59
34	F-F-90 (4) FH	949 foot steel and concrete bridge - Clark Fork (U.S. 10A relocation - West of Thompson Falls)	7-31-60
35	I 182 (6)*	12.5 miles grading, drainage, surfacing, plant mix oil and fencing - includes 2.4 miles four lane (US 91 - Ulm South)	9-1-59
36	S 107 (6)	8.0 miles drainage and surfacing (Southeast of Shelby)	6-30-59
37	S 223 (1) U1	6.0 miles grading, drainage, surfacing, bituminous surface treatment (Northeast of Fairfield)	6-15-59
38	FG 224 (5)	0.2 miles grading, drainage, concrete paving and 76 foot steel beam underpass - G.N. Ry. (US 87 - 2nd Avenue & 1st Avenue North - Great Falls)	6-30-59
39	DS 64 (2) & S 64 (3)	8.7 miles grading, drainage, surfacing and one 57 foot treated timber bridge - Dead Man's Basin Canal (Shawout North)	8-1-59
40	I 117 (10) U2*	4.0 miles grading, drainage, surfacing and plant mix oil (US 10 - East of Livingston)	9-1-59
41	US 246 (1)	0.7 miles grading, drainage, surfacing and plant mix oil (Last Chance Gulch and Park Avenue - Helena)	6-1-59
42	F 164 (10) & DF 164 (12)	4.3 miles grading, drainage, surfacing, plant mix bituminous and seal coat oiling (U.S. 10A - West of Anaconda)	8-1-59
43	S 362 (5)	9.0 miles surfacing, plant mix bituminous surfacing and seal coat oiling (South of Colstrip)	8-29-59
44	S 228 (1)	17.8 miles grading, drainage, surfacing & bituminous surface treatment (Wolf Creek - Northwest)	9-1-59
45	S 187 (1) U1	12.6 miles grading, drainage, surfacing & bituminous surface treatment (South of Harlem)	7-15-59
46	S 185 (1)	3.9 miles grading, drainage and surfacing (North of Cut Bank)	8-1-59
47	I 90-3 (3) 157 U2*	Four prestressed beam bridges - Two 113 foot Jens and two 153 foot Gold Creek Interchanges - four standard junior grade separations (US 10 - East of Drummond)	7-31-59
48	I-ING 90-8 (6) 441*	Eight prestressed concrete beam bridges - one 457 foot N.P. Ry. & Interstate Highway, three 153 foot - Canyon Creek, three 83 foot - Hogan Slough, one 133 foot Canyon Creek and 0.3 miles grading (US 10 - West of Billings)	6-30-59
49	S 187 (2) U1	14.0 miles of grading, drainage, surfacing & bituminous surface treatment (South of Harlem)	7-1-59
50	IN 90-9 (5) 498 U2* & IN 90-9 (7) 508 U2*	Seven prestressed concrete beam bridges, one 210 foot Mont. 8 Interchange, two 128 foot Dunmore Interchange, two 133 foot - Crow Agency Interchange, one 165 foot, one 153 foot - Little Big Horn River (US 87 - Crow Agency north and south)	7-31-59
51	S 187 (3) U1	12.6 miles grading, drainage, surfacing & bituminous surface treatment (South of Harlem)	7-1-59
52	S 223 (1) U2	Two 57 foot treated timber trestle bridges - U.S.R.S. Canal (Northeast of Fairfield)	5-31-59
53	F 192 (8), F 194 (4), F 197 (6), & F 63 (7)	16.7 miles (14.5 miles grading, surfacing) (8.5 miles drainage), plant mix, seal coat oiling and traffic delineation (U.S. 10A & 93 - North and South of St. Ignatius)	11-31-59
54	DF 176 (6)	5.2 miles grading, drainage, surfacing, plant mix & seal coat oiling (Mont. 20 Simms East)	7-31-59
55	DF 198 (4) F 334 (15) U2 DF 334 (16)	20.4 miles grading, drainage, soil cement stabilization, plant mix and seal coat oiling (US 212 & Mont. 8 - Broadus West)	9-15-59
56	U-UG 405 (3) U2	0.8 miles grading, drainage, surfacing, plant mix & seal coat oiling (Fifth-Sixth and Madison Streets - Missoula)	7-1-59
57	F 238 (7)	10.5 miles grading, drainage, surfacing, plant mix & seal coat oiling (Mont. 33 - North of Wolf Creek	9-15-59
58	DF-DFG 384 (4)	1.2 miles grading, drainage, surfacing and bituminous surface treatment (Mont. 6 - Forsyth Northwest)	6-15-59
59	F 87 (10) U1 DF 87 (11)	9.9 miles grading, drainge, surfacing, plant mix and seal coat oiling (Mont. 28 - Near Hot Springs)	9-1-59
60	F 193 (9) & F 273 (10)	7.8 miles grading, drainage, surfacing, plant mix and seal coat oiling (Mont. 16 - relocation Culbertson North)	7-15-59
61	F 333 (24)	19.9 miles surfacing, plant mix and seal coat oiling (Mont. 19 - From 4.5 miles South Missouri River North	7-1-60
62	F 391 (12)	9.0 miles plant mix bituminous surfacing (Mont. 20 - Richey West)	8-15-59
63	DF 284 (19)	0.7 miles surfacing & bituminous surface treatment, two steel and concrete bridges, 143 foot - Musselshell River, 102 foot - Big Coulee Creek (Mont. 3 - Lavina South)	9-15-59
64	S 196 (1)	11.0 miles grading,drainage, and surfacing (Northeast of Albion)	7-30-59
65	I 90-1 (5) 46*	Two steel riveted plate girder bridges, one 621 foot, one 801 foot - Clark Fork (U.S. 10 - North and South of Superior)	8-31-60
66	S 14 (B)	11.9 miles grading, drainage, surfacing, plant mix bituminous and seal coat oiling (Northeast of Ringling)	8-31-59
67	S 51 (4)	4.6 miles grading, drainage, and surfacing (Southeast of Baker)	6-30-59
68	DS 261 (2)	2.2 miles grading, drainage, surfacing and road mix oil (Southeast of Lewistown)	7-15-59
69	S 127 (3) U1	6.4 miles grading, drainage, and surfacing (West of Philipsburg)	6-1-59
70	S 236 (3)	7.0 miles grading, drainage and surfacing (Musselshell South)	7-1-59
71	DS 178 (4)	7.8 miles grading, drainage, surfacing, plant mix bituminous & seal coat oiling, one 75 foot treated timber trestle bridge - Post Creek (Moiese Northeast)	7-15-59
72	DF 333 (19)	14.9 miles surfacing, plant mix and seal coat oiling (Mont. 19 - South of Malta	7-15-59
73	F 130 (15) U2	Four 120 foot continuous concrete T beam bridges - 2 Seven Mile Creek, 2 - Dry Creek, (US 10 - West of Glendive)	4-30-59
74	DS 187 (5)	6.4 miles grading, drainage and surfacing (South of Harlem)	7-31-59
75	S 192 (2) U2	6.8 miles grading, drainage, surfacing, plant mix bituminous, seal coat oiling and three treated timber trestle bridges; one 19 and one 25 foot - Big Ditch, one 25 foot - B.B.W.A. Canal (West of Billings)	8-1-59
76	I-ING 15-2* (8) 118	4.2 miles (2.5 miles four lane divided) grading, drainage, surfacing, plant mix bituminous and seal coat oiling. Three prestressed concrete bridges. One 210 foot Victor Interchange. One 599 foot and one 614 foot B.A. & P. Ry., C.M.S.T. P&P. RR, NP RY and Clark Fork (US 91 - West of Butte)	7-1-60
77	S 248 (2) U1	12.1 miles grading, drainage and surfacing (Northeast of Browning)	7-1-60
78	I 94-6 (2) 216*	4.2 miles grading, drainage, surfacing, plant mix bituminous and seal coat oiling (US 10 - East of Glendive)	7-1-60
79	FG 95 (11) U2	312 foot steel and concrete overpass - G.N. Ry. (U.S. 2 - West of Havre)	11-30-59
80	S 32 (9)	10.0 miles surfacing, plant mix bituminous and seal coat oiling (North and South of Bloomfield)	6-31-59
81	S 127 (3) U2	102 foot prestressed concrete beam bridge - Rock Creak (West of Philipsburg)	7-31-59
82	S 248 (2) U2	Four treated timber trestle bridges, one 19 foot - Dry Coulee, one 38 foot - Cobell Coulee, one 50 foot - Willow Creek, one 100 foot - Cut Bank Creek (Northeast of Browning)	6-30-59
83	F-FG 228 (14)	1711 foot prestressed concrete bridge - M.P., G.N., & C.B.&Q., RR (US 10 - Billings)	10-31-59
84	DS 289 (7) DS 346 (4)	7.7 miles grading, drainage and surfacing (Roscoe North)	8-1-59
85	S 219 (3)	6.0 miles plant mix and seal coat oiling (South of Rudyard)	6-20-59
86	S 45 (7)	138 foot prestressed concrete bridge - Pumpkin Creek (Northeast of Garland)	5-15-59
87	S 264 (2)	All foot prestressed concrete beam bridge - Big Dry Creek (Northeast of Van Norman)	11-30-59
88	DF 333 (21) & F 333 (22)	12.9 miles soil cement stabilized base, plant mix bituminous and seal coat oiling (Mont. 19 - North of Grass Range)	8-31-59
89	S 260 (1)	11.4 miles grading, drainage, and surfacing (West of Lodge Grass)	10-1-59
90	DS 176 (4)	7.4 miles plant mix and seal coat oiling (Molt - East)	7-1-59
91	S 245 (1)	6.7 miles grading, drainage, surfacing and bituminous surface treatment (West of Havre)	7-1-59
92	S 157 (2)	10.4 miles plant mix bituminous surfacing and seal coat oiling (Kalispell West)	8-31-59
93	S 178 (6)	4.8 miles plant mix bituminous surfacing and seal coat oiling (Northeast of Moiese)	8-15-59
94	S 257 (3)	Three bridges - one 400 foot riveted plate girder, Milk River - one 120 foot concrete T beam, Cherry Creek - one 75 foot treated timber trestle (Glasgow west)	11-30-60
95	DS 91 (4)	3.4 miles grading, drainage, surfacing & bituminous surface treatment (Northeast of Eden)	9-1-59
96	F - 78 (7)	9.7 miles grading, drainage, surfacing, plant mix bituminous and seal coat oiling (US 10 S - North of Philipsburg)	1-16-60
97	S 274 (2)	3.4 miles, grading, drainage and surfacing (West of Red Lodge)	7-1-59
98	DS 204 (2)	8.5 miles plant mix and seal coat oiling (Northeast of Big Fork)	7-1-59
99	S SG 272 (1)	1.7 miles grading, drainage, surfacing, bituminous surface treatment and 180 foot steel and concrete overpass - N.P. Ry. (Southeast Frenchtown)	6-31-59
100	S 289 (6) & S 346 (3)	Two steel and concrete bridges - 110 foot and 153 foot - East Rosebud River (Near Roscoe)	7-31-59
101	DS 251 (2)	6.3 miles grading, drainage, surfacing and bituminous surface treatment (North of Helena)	6-1-59
102	DS 302 (4)	2.2 miles grading, drainage, surfacing road mix & seal coat oiling (Terry - North)	7-30-59
103	DS 304 (4)	2.8 miles surfacing, plant mix and seal coat oiling (Northeast of Anaconda)	6-15-59
104	I 90-1 (4) 60 U1*	5.0 miles (2.0 miles four lane) grading, drainage, surfacing, plant mix, seal coat oiling and fencing (U.S. 10 - Southeast of Superior)	10-15-59
105	I 90-1 (4) 60 U2*	Two 128 foot prestressed concrete beam bridges - Tarkio Interchange, one standard junior grade separation (US 10 - Southeast of Superior)	6-30-59
106	I 90-3 157 U1*	9.6 miles four lane grading, drainage, surfacing, plant mix, seal coat oiling and fencing (US 10 - East of Drummond)	9-30-59
107	DF 62 (10) DF 225 (4)	20.1 miles grading, surfacing, plant mix and seal coat oiling (U.S. 2 - Shelby East)	7-31-59
108	DF 258 (11)	5.8 miles grading, drainage, surfacing, plant mix and seal coat oiling (US 310 - South of Bridger)	7-1-59
109	S 270 (2)	0.2 miles grading and installation two structural plate pipe arches (Southwest of Bloomfield)	9-30-59
110	DS 9 (8)	5.6 miles reshape, surfacing and bituminous surface treatment (Southeast of Boulder)	7-1-59
111	DS 54 (5)	9.1 miles surfacing, plant mix and seal coat oiling (Biddle South)	6-30-59
112	F - 84 (26)	9.8 miles grading, drainage, surfacing, plant mix bituminous and seal coat oiling (U.S. 2 - Poplar West)	9-30-59
113	S 167 (5)	4.5 miles grading, drainage, surfacing and bituminous surface treatment (Southeast of Whitshall)	7-1-59
114	BS 366 (4)	6.6 miles grading, drainage, and surfacing (west of Sunburst)	9-15-59
115	S - 31 (4)	8.0 miles, grading, drainage and surfacing (Northeast of Circle)	11-31-59
116	S - 187 (6)	39.3 miles plant mix bituminous surfacing (South of Harlem)	7-31-59
117	S - 313 (4)	15.6 miles plant mix bituminous and seal coat oiling (Plentywood)	7-31-59

* - Indicates Interstate System Projects.